

# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

UNIVERSITY OF MARYLAND  
SAMAL, Siba K.

hereby appoints (appoint) the following person as:

☒ agent

☐ common representative

**Name and address**

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

WONG, King L., US Reg. No. 37,500; NIKAIDO, David T., US Reg. No. 22,663; MARMELESTEIN, Charles M., US Reg. No. 25,895; MURRAY, Robert B., US Reg. No. 22,980; ORAM, George E., Jr. US Reg. No. 27,931; GOLDHUSH, Douglas H., US Reg. No. 33,125; KITTS, Monica Chin, US Reg. No. 36,105; BERMAN, Richard J., US Reg. No. 39,107; OZGU, Murat, US Reg. No. 44,275; GOLDIZEN, Bradley D., US Reg. No. 43,637; NOLTE, N. Alexander, US Reg. No. 45,689; CARPENTER, Robert K., US Reg. No. 34,794; KANG, Gregory B., US Reg. No. 45,273; HILL Rustan J., US Reg. No. 37,351; all of Nikaido, Marmelstein, Murray & Oram Intellectual Property Group of Arent Fox Kintner Plotkin & Kahn, PLLC

to represent the undersigned before

☒ all the competent International Authorities

☐ the International Searching Authority only

☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

**Title of the invention:** Production of Novel Castledisease Virus Strains from cDNAs and Improved Live Attenuated Newcastle Disease Vaccines

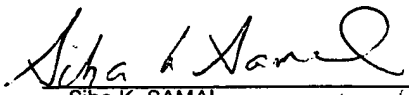
**Applicant's or agent's file reference:** F108172-00002

**International application number (if already available):**

filed with the following Office RO/US as receiving Office  
and to make or receive payments on behalf of the undersigned.

**Signature of the applicant(s)** (where there are several applicants, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading the request or this power):

  
UNIVERSITY OF MARYLAND

  
Siba K. SAMAL

7/26/00

By: James A. Poulos, III

Title: Executive Director  
Office of Technology Commercialization

Date:

July 26, 2000

# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned person(s):  
(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

COLLINS, Peter L.  
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Rockville, Maryland 20852  
US

hereby appoints (appoint) the following person as: ☒ agent ☐ common representative

Name and address  
(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

GOLDHUSH, Douglas W., U.S. Reg. No. 33,125  
MARMELESTEIN, Charles M., U.S. Reg. No. 25,895  
NIKAIDO, David T., U.S. Reg. No. 22,663  
KANG, Gregory B., U.S. Reg. No. 45,273  
OZGU, Murat, U.S. Reg. No. 44,275

BERMAN, Richard J., U.S. Reg. No. 39,107  
MURRAY, Robert B., U.S. Reg. No. 22,980  
GRAM, George E., U.S. Reg. No. 27,931  
HILL, Ruston J., U.S. Reg. No. 37,351  
CARPENTER, Robert K., U.S. Reg. No. 34,794

All of the firm of:  
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to represent the undersigned before ☒ all the competent International Authorities  
☐ the International Searching Authority only  
☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: PRODUCTION OF NOVEL NEWCASTLE DISEASE VIRUS STRAINS FROM CDNAS  
AND IMPROVED LIVE ATTENUATED NEWCASTLE DISEASE VACCINES

Applicant's or agent's file reference: 108172-00002

International application number (if already available): PCT/US00/06700

filed with the following Office: Original to IB and copy to RO/US as receiving Office  
and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person  
signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

Peter Collins

Date: 1/19/01